

IN THE CLAIMS

1. (Currently Amended) A power supply device, comprising:
a rectification section for rectifying an input AC voltage;
a primary side capacitor for smoothing an output voltage from said rectification section;
a switching power supply section for receiving a DC voltage from said primary side
capacitor as an input voltage at a primary side thereof, switching the inputted DC voltage and
generating a stabilized output DC voltage at a secondary side thereof isolated from the primary
side; ~~and~~
~~a current detection section~~ a photo-coupler having a photodiode and a phototransistor
wherein said photodiode is connected between said rectification section and said primary side
capacitor for detecting a supply current supplied from said rectification section, and wherein said
phototransistor for generating a detection signal is isolated from said primary side in response to
said detected supply current ~~to said switching power supply section; said current detection~~
~~section generating the detection signal isolated from the primary side and~~ for conveying the
detection signal to an equipment connected to the secondary side of said switching power supply
section.

Claims 2-4. (Canceled)

5. (Currently Amended) An electronic equipment, comprising:
- a rectification section for rectifying an input AC voltage;
 - a primary side capacitor for smoothing an output voltage from said rectification section;
 - a switching power supply section for receiving a DC voltage from said primary side capacitor as an input voltage at a primary side thereof, switching the inputted DC voltage and generating a stabilized output DC voltage at a secondary side thereof isolated from the primary side;
 - ~~a current detection section~~ a photo-coupler having a photodiode and a phototransistor wherein said photodiode is connected between said rectification section and said primary side capacitor for detecting a supply current supplied from said rectification section, and wherein said phototransistor for generating a detection signal is isolated from said primary side in response to said detected supply current to said switching power supply section;
 - an operation circuit for operating using the output DC voltage outputted from said switching power supply section as a voltage source; and
 - a control section for operating using the output DC voltage outputted from said switching power supply section as a voltage source to control said operation circuit;
 - ~~said current detection section generating the detection signal isolated from the primary side and conveying the detection signal to said control section;~~
 - said control section performing an operation ending process of said operation circuit in response to the detection signal from said photo-coupler.

Claims 6-8. (Canceled)